

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III SECRETARY

October 31, 2017

Addendum No. 1

RE: Contract # C203979
WBS # 34839.3.GV6
F. A. # NHP-0918(062)
Forsyth County (U-2579C)
Winston-Salem Northern Beltway (Eastern Section) From US-311
To US-158 (Future I-74)

November 21, 2017 Letting (Advertisement Extended from October 17, 2017 Letting)

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the Roadway plans:

Sheet No.	Revisions
Title Sheet	Revised to reflect the change in the letting date.
3B-3	Revised Summary Of Earthwork to reflect cutting off the project at
	Station 392+50
X-1B	Revised the Cross Section Summary to reflect the change in the
	earthwork

Please void the Title Sheet, Sheet 3B-3 and Sheet X-1B in your plans and staple the revised sheets thereto.

The Earthwork Balance Sheet in the online Digital Files folder has been revised to reflect these changes in the earthwork.

The following revisions have been made to the Structure plans:

Sheet No.	Revisions	
Title Sheet	Revised to reflect the change in the letting date.	

Please void the Title sheet in your plans and staple the revised Title sheet thereto.

The following revisions have been made to the proposal:

Page No.	Revisions	
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 10-31-2017".	
Table of Contents	Revised to show the addition of the project special provisions entitled "Bonus Clause For Substantial Completion Of Intermediate Contract Time Number 1" and "Planned Construction Revision"	
G-1	Revised the availability date within the project special provisions entitled "Contract Time and Liquidated Damages". Revised the availability date and LD's within the project special provision entitled "Intermediate Contract Time Number 1 and Liquidated Damages".	
New G-1A	New Page to add the project special provision entitled "Bonus Clause For Substantial Completion of Intermediate Contract Time #1".	
G-3	Revised the second paragraph of the project special provision entitled "Intermediate Contract Time Number 3 and Liquidated Damages"	
G-5 and New G-5A	Updated the list of parcels and dates within the project special provisions entitled "Delay In Right Of Entry" and "Delay In Right of Way"	
G-6	Revised the line #'s within the project special provision entitled "Major Contract Items". Also, updated the base index price for Diesel fuel within the project special provision entitled "Fuel Price Adjustment"	
G-7	Revised the percentages within the project special provision entitled "Schedule Of Estimated Completion Progress"	
G-10	Revised the DBE goal within the project special provision entitled "Disadvantaged Business Enterprise"	
G-38	Revised to add the project special provision entitled "Planned Construction Revision"	
R-2 thru R-6	Revised to remove the project special provisions entitled "Coal Combustion Products In Embankments" and "Manufactured Quarry Fines In Embankments". The remaining pages in this section will be renumbered appropriately in the final contract.	
R-21	Revised to update the base index price for asphalt binder within the project special provision entitled "Price Adjustment- Asphalt Binder For Plant Mix"	
UbO-1 thru UbO-3	Revised to make various changes to the project special provisions for Utilities By Others	

Please void the above listed pages in your proposal and staple the revised pages thereto.

On the item sheets the following pay items have been revised, added or deleted:

<u>Item</u>	Description	Old Quantity	New Quantity
012-0106000000-E- 230	Borrow Excavation	1,700,000 CY	DELETED
014-0134000000-E- 240	Drainage Ditch Excavation	19,500 CY	7,500 CY
020-0196000000-E- 270	Geotextile For Soil Stabilization	48,600 SY	47,300 SY
044-0576000000-E- 310	60"CS Pipe Culverts, 0.138" Thick	1,144 LF	DELETED
123-3656000000-E- 876	Geotextile For Drainage	25,050 SY	24,700 SY
204-6000000000-E- 1650	Temporary Silt Fence	92,500 LF	53,500 LF
205-6006000000-E- 1610	Stone For Erosion Control, Class A	2,250 TON	1,750 TON
206-6009000000-E- 1610	Stone For Erosion Control, Class B	41,000 TON	12,000 TON
207-6012000000-E- 1610	Sediment Control Stone	34,885 TON	19,720 TON
208-6015000000-E- 1615	Temporary Mulching	302.5 ACR	226.5 ACR
209-6018000000-E- 1620	Seed For Temporary Seeding	12,800 LB	10,500 LB
210-6021000000-E- 1620	Fertilizer For Temporary Seeding	65.5 TON	54.5 TON
211-6024000000-e- 1622	Temporary Slope Drains	32,500 LF	11,000 LF
213-6030000000-E- 1630	Silt Excavation	385,600 CY	321,500 CY
214-6036000000-E- 1631	Matting For Erosion Control	420,500 SY	282,775 SY
215-6037000000-E- SP	Coir Fiber Mat	750 SY	550 SY
217-6042000000-E- 1632	1/4" Hardware Cloth	7,500 LF	5,600 LF
221-6071012000-E- SP	Coir Fiber Wattle	9,500 LF	7,300 LF
222-6071020000-E- SP	Polyacrylamide (PAM)	8,550 LB	6,300 LB
223-6071030000-E- 1640	Coir Fiber Baffle	33,500 LF	17,500 LF
224-6071050000-E- SP	1-1/2" Skimmer	28 EA	21 EA
225-6071050000-E-SP	2" Skimmer	14 EA	12 EA

<u>Item</u>	Description	Old Quantity	New Quantity
226-6071050000-E-	2-1/2" Skimmer	10 EA	7 EA
SP			
229-6084000000-E-	Seeding and Mulching	250 ACR	147 ACR
1660			
230-6087000000-E-	Mowing	250 ACR	138 ACR
1660			
231-6090000000-E-	Seed For Repair Seeding	3,000 LB	2,300 LB
1661			
232-6093000000-Е-	Fertilizer For Repair	12.75 TON	6.0 TON
1661	Seeding		
233-6096000000-E-	Seed For Supplemental	7,075 LB	3,475 LB
1662	Seeding	044 55 503 7	100 55 500
234-6108000000-E-	Fertilizer Topdressing	211.75 TON	103.75 TON
1665		10035	100 3 5770
236-6114500000-N-	Specialized Hand Mowing	130 MHR	120 MHR
1667	D D D :	105 F.A	110 54
237-6117000000-N-	Response For Erosion	125 EA	113 EA
SP	Control	10 A CD	7. A CD
239-6123000000-E-	Reforestation	10 ACR	7 ACR
1670	01 11 D		10 000 077
296-1231000000-E-	Shoulder Borrow	NEW ITEM	18,000 CY
560	(For Alternate 1)	NITTER FOREIGN	14.500.00
300-1231000000-Е-	Shoulder Borrow	NEW ITEM	14,500 CY
560	(For Alternate 2)		2.150.041
340-1275000000-E-	Prime Coat	NEW ITEM	3,150 GAL
600			

Due to adding the new items for "Shoulder Borrow" the line code numbers for all items after that have shifted.

The contract will be prepared accordingly.

Please ensure that you download and begin with the new EBS file listed for the November 21, 2017 letting. The Expedite Addendum File has been updated to reflect the above noted revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. This will also revise the DBE goal within your electronic file. Bid Express will not accept your bid unless the new EBS file associated with the November 21, 2017 letting is used and the EBS addendum file has been applied.

The contract times were re-examined to consider the above noted changes and the Department has determined that the completion dates will remain the same.

Sincerely,

DocuSigned by:

Ronald E. Davenport, Jr.

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Ronald. E. Davenport, Jr., PE

State Contract Officer

RED/jag Attachments

cc:

Mr. Lamar Sylvester, PE

Mr. Pat Ivey, PE

Mr. Chris Werner, PE

Mr. Jon Weathersbee, PE

Mr. Ken Kennedy, PE

Mr. Mitchell Dixon

Project File (2)

Mr. Ray Arnold, PE

Ms. Theresa Canales, PE

Mr. Mike Gwyn

Ms. Lori Strickland

Ms. Jaci Kincaid

Ms. Penny Higgins

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 10-31-2017

DATE AND TIME OF BID OPENING: NOVEMBER 21, 2017 AT 2:00 PM

CONTRACT ID

C203979

WBS

34839.3.GV6

FEDERAL-AID NO. NHP-0918(062)

COUNTY

FORSYTH

T.I.P. NO.

U-2579C

MILES

1.989

ROUTE NO.

LOCATION

WINSTON-SALEM NORTHERN BELTWAY (EASTERN SECTION) FROM US-311

TO US-158 (FUTURE I-74)

TYPE OF WORK

WIDEN, GRADING, PAVING, DRAINAGE, SIGNING, SIGNALS, & STRS.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

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PROPOSAL ITEM SHEET

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PROJECT SPECIAL PROVISIONS

GENERAL

CONTRACT TIME AND LIQUIDATED DAMAGES:

(8-15-00) (Rev. 12-18-07)

108

SP1 G07 A

The date of availability for this contract is **January 2, 2018**, except that work in jurisdictional waters and wetlands shall not begin until a meeting between the DOT, Regulatory Agencies, and the Contractor is held as stipulated in the permits contained elsewhere in this proposal. This delay in availability has been considered in determining the contract time for this project.

The completion date for this contract is **November 28, 2021**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Two Hundred Dollars** (\$ 200.00) per calendar day. These liquidated damages will not be cumulative with any liquidated damages which may become chargeable under Intermediate Contract Time Number 1.

INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:

(7-1-95) (Rev. 2-21-12)

108

SP1 G13 A

Except for that work required under the Project Special Provisions entitled *Planting, Reforestation* and/or *Permanent Vegetation Establishment*, included elsewhere in this proposal, the Contractor will be required to complete all work included in this contract and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is **January 2, 2018**.

The completion date for this intermediate contract time is June 1, 2021.

The liquidated damages for this intermediate contract time are **Three Thousand Dollars** (\$ 3,000.00) per calendar day.

Upon apparent completion of all the work required to be completed by this intermediate date, a final inspection will be held in accordance with Article 105-17 and upon acceptance, the Department will assume responsibility for the maintenance of all work except *Planting, Reforestation* and/or *Permanent Vegetation Establishment*. The Contractor will be responsible for and shall make corrections of all damages to the completed roadway caused by his planting operations, whether occurring prior to or after placing traffic through the project.

BONUS CLAUSE FOR SUBSTANTIAL COMPLETION OF INTERMEDIATE CONTRACT TIME NUMBER 1:

The Department desires that Intermediate Contract Time Number 1 be substantially completed by December 15, 2020 and that the Contractor pursue the work with such labor, equipment and materials as necessary to ensure that the intermediate date will be met without regard to time extensions and time reliefs provided for in the Specifications. Therefore, as full compensation for all extra costs involved, the Department agrees to pay as a bonus, the sum of **One Million Dollars** (\$ 1,000,000) to the Contractor for substantially completing this intermediate contract work on or prior to **December 15, 2020.** Should the Contractor fail to substantially complete this intermediate contract work by this date, then normal time extension and time reliefs provided in the Specifications will apply and no bonus will be allowed. The minimum requirements for being considered substantially complete are:

- 1. The first layer of final surface pavement for all lanes and shoulders along the project or along the work required are complete.
- 2. All signs are complete and accepted except for the signs on intersecting roadways.
- 3. All guardrails, drainage devices, ditches, excavation and embankment are complete.
- 4. Remaining work along the project consists of permanent pavement markings, permanent pavement markers or incidental construction that is away from the paved portion of the roadway and final surface layer.
- 5. The work required is complete to the extent specified above, such that public traffic can be placed on the roadway, at the Engineer's option, and move unimpeded at the posted speed, and all lanes and shoulders are available for public use. Intersecting roads and service roads are complete to the extent that they provide the safe and convenient use of the facility by the public.

Upon apparent substantial completion of the work required, the Engineer will make an inspection of the work. If the inspection discloses the work required is substantially complete, the Engineer will notify the Contractor in writing that the work is substantially complete. If the inspection discloses the work required is not substantially complete, the Engineer will notify the Contractor in writing of the work that is not substantially complete. The work will not be considered substantially complete until all of the recommendations made at the time of the inspection have been satisfactorily completed.

Holidays and holiday weekends shall include New Year's, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. The Contractor shall schedule his work so that lane closures will not be required during these periods, unless otherwise directed by the Engineer.

The time of availability for this intermediate contract work shall be the time the Contractor begins to install all traffic control devices for lane closures according to the time restrictions listed herein.

The completion time for this intermediate contract work shall be the time the Contractor is required to complete the removal of all traffic control devices for lane closures according to the time restrictions stated above and place traffic in the existing traffic pattern.

The liquidated damages are Two Hundred and Fifty Dollars (\$ 250.00) per fifteen (15) minute time period.

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES: (2-20-07) (Rev. 6-18-13) 108 SP

(2-20-07) (Rev. 6-18-13)

SP1 G14 H

The Contractor shall complete the work required of Phase I, Step #3 as shown on Sheet TMP-3 and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work, but not before March 15, 2019.

The completion date for this intermediate contract time is the date which is thirty (30) consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **Two Thousand Five Hundred Dollars** (\$ 2,500.00) per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

SP1 G14 F

The Contractor shall complete the work required of Phase III, Step #1A as shown on Sheet TMP-3 and shall place and maintain traffic on same.

The time of availability for this intermediate contract time is the Friday at 6:00 PM that the Contractor elects to begin the work.

The completion time for this intermediate contract time is the following Monday at 6:00 AM after the time of availability.

The liquidated damages are Two Hundred and Fifty Dollars (\$ 250.00) per fifteen (15) minute time period.

INTERMEDIATE CONTRACT

The Contractor shall complete the work required of Phase III, Step #1B as shown on Sheet TMP-3 and shall place and maintain traffic on same.

<u>**DELAY IN RIGHT OF ENTRY:**</u> (7-1-95) (Rev. 7-15-14)

C203979 U-2579C

(7-1-95) (Rev. 7-15-14) 108 SP1 G22

The Contractor will not be allowed right of entry to the following parcel(s) prior to the listed date(s) unless otherwise permitted by the Engineer.

Parcel No.	Property Owner	<u>Date</u>
1	Oak Grove Moravian Church	10/15/18
2	MDC Investments	10/15/18
5	Oak Grove Moravian Church	10/15/18
9	Margaret H. Hoerner and Helen Hammock, et. Al	3/1/18
10	The Chapman Family Trust	5/1/18
11	Robert B. Stimpson, et. al	5/1/18
12	Andrew Marshall	3/1/18
22	Larry & Patsy Inman	3/1/18
25	Bobby Thore	5/1/18
26	Manyon Idol	3/1/18
27	Manyon Idol	3/1/18
33	Melvin R. Caldwell Jr. & Sherie F. Caldwell	5/1/18
37	Matthew McKinney	5/1/18
38	Carl Miller Revocable Family Trust	3/1/18
39	Judy Dillon	3/1/18
49	Dale C. & Cathy S. Vanhoy	5/1/18
54	Sherrell Whicker	3/1/18
70	Donna Decker aka Donna Miller	3/1/18
79	Ferrell Construction Co.	5/1/18
81	Christopher R. Rothrock	3/1/18
88	Jerry Lewis	3/1/18
94	Linda R. Shaw	10/15/18
95	Mt. Pleasant Holiness Church	10/15/18
96	Lutheran Home W S Prop.	10/15/18
97	Maryann B. Sweat	10/15/18
98	Shannon S. Maloney	10/15/18
99	Walter & Marilyn Sawyers	10/15/18

DELAY IN RIGHT OF WAY:

The Contractor shall take no action that will result in unnecessary inconvenience, disproportionate injury or any action coercive in nature to occupants of residences, businesses, farms, or non-profit organizations who have not yet moved from the right of way of the parcels below:

Parcel No.	Property Owner	Estimated Vacating Date
22	Larry & Patsy Inman	2/1/18
25	Bobby Thore	4/1/18
26	Manyon Idol	2/1/18
27	Manyon Idol	2/1/18
33	Melvin R. Caldwell Jr. & Sherie F. Caldwell	4/1/18
37	Matthew McKinney	4/1/18
49	Dale C. & Cathy S. Vanhoy	4/1/18
54	Sherrell Whicker	2/1/18
95	Mt. Pleasant Holiness Church	10/15/18

Extension of contract time may be granted in accordance with Article 108-10(B)3 for delays caused by interferences beyond such estimated vacating date.

MAJOR CONTRACT ITEMS:

(2-19-02) 104 SPI G28

The following listed items are the major contract items for this contract (see Article 104-5 of the 2012 Standard Specifications):

Line #	Description
6	Unclassified Excavation
295	Aggregate Base Course
	or
6	Unclassified Excavation
301	Asphalt Concrete Base Course, Type B25.0C

SPECIALTY ITEMS:

(7-1-95)(Rev. 1-17-12) 108-6 SP1 G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the 2012 Standard Specifications).

Line #	Description
105-114	Guardrail
115-117	Fencing
124-146, 179, 184	Signing
158-162, 168-170	Long-Life Pavement Markings
177-178	Permanent Pavement Markers
185-203	Utility Construction
204-238, 240	Erosion Control
239	Reforestation
241-294	Signals/ITS System
310-312, 314-316	Drilled Piers

FUEL PRICE ADJUSTMENT:

(11-15-05) (Rev. 2-18-14) 109-8 SPI G43

Revise the 2012 Standard Specifications as follows:

Page 1-83, Article 109-8, Fuel Price Adjustments, add the following:

The base index price for DIESEL #2 FUEL is \$ 1.9815 per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

Description	Units	Fuel Usage Factor Diesel	
Unclassified Excavation	Gal/CY	0.29	
Borrow Excavation	Gal/CY	0.29	
Class IV Subgrade Stabilization	Gal/Ton	0.55	
Aggregate Base Course	Gal/Ton	0.55	
Sub-Ballast	Gal/Ton	0.55	
Asphalt Concrete Base Course, Type	Gal/Ton	2.90	

Asphalt Concrete Intermediate Course, Type	Gal/Ton	2.90
Asphalt Concrete Surface Course, Type	Gal/Ton	2.90
Open-Graded Asphalt Friction Course	Gal/Ton	2.90
Permeable Asphalt Drainage Course, Type	Gal/Ton	2.90
Sand Asphalt Surface Course, Type	Gal/Ton	2.90
Aggregate for Cement Treated Base Course	Gal/Ton	0.55
Portland Cement for Cement Treated Base Course	Gal/Ton	0.55
" Portland Cement Concrete Pavement	Gal/SY	0.245
Concrete Shoulders Adjacent to" Pavement	Gal/SY	0.245

PAYOUT SCHEDULE:

(1-19-10) (Rev. 1-17-12)

108

SP1 G57

Submit an Anticipated Monthly Payout Schedule prior to beginning construction. The Anticipated Monthly Payout Schedule will be used by the Department to monitor funding levels for this project. Include a monthly percentage breakdown (in terms of the total contract amount) of the work anticipated to be completed. The schedule should begin with the date the Contractor plans to begin construction and end with the anticipated completion date. Submit updates of the Anticipated Monthly Payout Schedule on March 15, June 15, September 15, and December 15 of each calendar year until project acceptance. Submit the original Anticipated Monthly Payout Schedule and all subsequent updates to the Resident Engineer with a copy to the State Construction Engineer at 1 South Wilmington Street, 1543 Mail Service Center, Raleigh, NC 27699-1543.

SCHEDULE OF ESTIMATED COMPLETION PROGRESS:

(7-15-08) (Rev. 5-16-17)

108-2

SP1 G58

The Contractor's attention is directed to the Standard Special Provision entitled *Availability of Funds Termination of Contracts* included elsewhere in this proposal. The Department of Transportation's schedule of estimated completion progress for this project as required by that Standard Special Provision is as follows:

	Fiscal Year	Progress (% of Dollar Value)			
2018	(7/01/17 - 6/30/18)	22% of Total Amount Bid			
2019	(7/01/18 - 6/30/19)	36% of Total Amount Bid			
2020	(7/01/19 - 6/30/20)	26% of Total Amount Bid			
2021	(7/01/20 - 6/30/21)	16% of Total Amount Bid			

The Contractor shall also furnish his own progress schedule in accordance with Article 108-2 of the 2012 Standard Specifications. Any acceleration of the progress as shown by the Contractor's progress schedule over the progress as shown above shall be subject to the approval of the Engineer.

DISADVANTAGED BUSINESS ENTERPRISE:

(10-16-07)(Rev. 1-17-17)

102-15(J)

SP1 G61

Description

The purpose of this Special Provision is to carry out the U.S. Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with Federal funds. This provision is guided by 49 CFR Part 26.

DBE Goal

The following DBE goal for participation by Disadvantaged Business Enterprises is established for this contract:

Disadvantaged Business Enterprises 10.0%

- (A) If the DBE goal is more than zero, the Contractor shall exercise all necessary and reasonable steps to ensure that DBEs participate in at least the percent of the contract as set forth above as the DBE goal.
- (B) If the DBE goal is zero, the Contractor shall make an effort to recruit and use DBEs during the performance of the contract. Any DBE participation obtained shall be reported to the Department.

Directory of Transportation Firms (Directory)

Real-time information is available about firms doing business with the Department and firms that are certified through NCUCP in the Directory of Transportation Firms. Only firms identified in the Directory as DBE certified shall be used to meet the DBE goal. The Directory can be found at the following link. https://www.ebs.nc.gov/VendorDirectory/default.html

The listing of an individual firm in the directory shall not be construed as an endorsement of the firm's capability to perform certain work.

Listing of DBE Subcontractors

At the time of bid, bidders shall submit <u>all</u> DBE participation that they anticipate to use during the life of the contract. Only those identified to meet the DBE goal will be considered committed, even though the listing shall include both committed DBE subcontractors and additional DBE subcontractors. Additional DBE subcontractor participation submitted at the time of bid will be used toward the Department's overall race-neutral goal. Only those firms with current DBE certification at the time of bid opening will be acceptable for listing in the bidder's submittal of DBE participation. The Contractor shall indicate the following required information:

(A) Electronic Bids

Bidders shall submit a listing of DBE participation in the appropriate section of Expedite, the bidding software of Bid Express[®].

(1) Submit the names and addresses of DBE firms identified to participate in the contract. If the bidder uses the updated listing of DBE firms shown in Expedite, the bidder may use the dropdown menu to access the name and address of the DBE firm.

STATE HIGHWAY ADMINISTRATOR TITLE CHANGE:

(9-18-12)

SP1 G185

Revise the 2012 Standard Specifications as follows:

Replace all references to "State Highway Administrator" with "Chief Engineer".

SUBLETTING OF CONTRACT:

(11-18-2014)

108-6

SP1 G186

Revise the 2012 Standard Specifications as follows:

Page 1-66, Article 108-6 Subletting of Contract, line 37, add the following as the second sentence of the first paragraph:

All requests to sublet work shall be submitted within 30 days of the date of availability or prior to expiration of 20% of the contract time, whichever date is later, unless otherwise approved by the Engineer.

Page 1-67, Article 108-6 Subletting of Contract, line 7, add the following as the second sentence of the fourth paragraph:

Purchasing materials for subcontractors is not included in the percentage of work required to be performed by the Contractor. If the Contractor sublets items of work but elects to purchase material for the subcontractor, the value of the material purchased will be included in the total dollar amount considered to have been sublet.

PLANNED CONSTRUCTION REVISION:

The Department has determined that the work currently shown in the plans from Station 373+00 to approximately Station 392+50 will be eliminated from this project. The earthwork summary on sheet 3B-3 of the plans has been revised to reflect this change and the pay item quantity for "Borrow Excavation" has been eliminated. The pay item for 60 inch CS Pipe Culverts has been eliminated and erosion control pay item quantities have been adjusted to reflect these changes. The other revisions to the plans and pay quantities necessary to modify this portion of the project will be made by a future construction plan revision. Any additional compensation related to future line item quantity adjustments will only be provided as allowed by Articles 104-5 and 104-6 of the Standard Specifications. Compensation for any items of work required by the future construction plan revision that are not identified in the proposal will be provided for as extra work in accordance with Article 104-7 of the Standard Specifications.

SHOULDER AND FILL SLOPE MATERIAL:

(5-21-02)

SP2 R45 B

Description

Perform the required shoulder and slope construction for this project in accordance with the applicable requirements of Section 560 and Section 235 of the 2012 Standard Specifications.

Measurement and Payment

When the Contractor elects to obtain material from an area located beneath a proposed fill sections which does not require excavation for any reason other than to generate acceptable shoulder and fill slope material, the work of performing the excavation will be considered incidental to the item of Borrow Excavation or Shoulder Borrow. If there is no pay item for Borrow or Shoulder Borrow in the contract, this work will be considered incidental to Unclassified Excavation. Stockpile the excavated material in a manner to facilitate measurement by the Engineer. Fill the void created by the excavation of the shoulder and fill slope material with suitable material. Payment for material used from the stockpile will be made at the contract unit price for Borrow Excavation or Shoulder Borrow, then the material will be paid for at the contract unit price for Unclassified Excavation. The material used to fill the void created by the excavation of the shoulder and fill slope material will be made at the contract unit price for Unclassified Excavation, or Shoulder Borrow, depending on the source of the material.

Material generated from undercut excavation, unclassified excavation or clearing and grubbing operations that is placed directly on shoulders or slope areas, will not be measured separately for payment, as payment for the work requiring the excavation will be considered adequate compensation for depositing and grading the material on the shoulders or slopes.

When undercut excavation is performed at the direction of the Engineer and the material excavated is found to be suitable for use as shoulder and fill slope material, and there is no area on the project currently prepared to receive the material generated by the undercut operation, the Contractor may construct a stockpile for use as borrow at a later date. Payment for the material used from the stockpile will be made at the contract unit price for *Borrow Excavation* or *Shoulder Borrow*.

When shoulder material is obtained from borrow sources or from stockpiled material, payment for the work of shoulder construction will be made at the contract unit price per cubic yard for *Borrow Excavation* or *Shoulder Borrow* in accordance with the applicable provisions of Section 230 or Section 560 of the *2012 Standard Specifications*.

EMBANKMENT SETTLEMENT GAUGES:

(7-1-95) (Rev. 8-18-15)

235

SP2 R75

Revise the 2012 Standard Specifications as follows:

Page 2-22, Article 235-1 DESCRIPTION, add the following:

Surcharges and waiting periods may be required for embankments and retaining walls to minimize and control the effects of settlement on structures, approach slabs, pavements, pipes, utilities, etc.

The base price index for asphalt binder for plant mix is \$ 364.00 per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on October 1, 2017.

SLUICE GATE:

(7-1-95) (Rev. 3-17-09)

838

SP8 R20

Description

This work consists of the construction of a sluice gate on an endwall in accordance with the details in the plans, the applicable requirements of Section 838 of the 2012 Standard Specifications, in accordance with the manufacturer's recommendations and as directed by the Engineer.

Materials

Sluice gates shall meet the manufacturer's recommendations for the corresponding pipe size. Due to variations in individual manufacturer's products, a slight variation from the size specified may be allowed. Submit the proposed catalog cut to the Engineer for approval prior to use.

Construction Methods

Provide a gate that forms a watertight seal when closed.

Measurement and Payment

_____" Sluice Gate will be measured and paid as each for the actual number of sluice gates incorporated into the completed and accepted work. Such prices and payment will be full compensation for all materials, labor, tools, equipment and incidentals necessary to complete the work.

The endwall will be measured and paid in accordance with Article 838-4 of the 2012 Standard Specifications.

Payment will be made under:

Pay Item		Pay Unit
" Sluice Gate		Each

GUARDRAIL END UNITS, TYPE - TL-2:

(10-21-08) (Rev. 7-1-17)

862

SP8 R64

Description

Furnish and install guardrail end units in accordance with the details in the plans, the applicable requirements of Section 862 of the 2012 Standard Specifications, and at locations shown in the plans.

Project: U-2579C

County: Forsyth

General:

The following utility companies have facilities that will be in conflict with the construction of this project:

- A. Duke Energy Power (Distribution)
- B. Duke Energy Power (Transmission)
- C. ATT Distribution
- D. Century Link
- E. Time Warner
- F. Piedmont Natural Gas Transmission
- G. Piedmont Natural Gas Distribution

The conflicting facilities of these concerns will be adjusted prior to the date of availability, unless otherwise noted and are therefore listed in these special provisions for the benefit of the Contractor. All utility work listed herein will be done by the utility owners. All utilities are shown on the plans from the best available information.

The Contractor's attention is directed to Article 105.8 of the Standard Specifications.

Utilities Requiring Adjustment:

Utility relocations are shown on the Utility by Others Plans.

A) Duke Energy – Power (Distribution)

Contact Information:

Patrick Sizemore 336-917-2522

Patrick.sizemore@duke-energy.com

- 1) See Utilities by Others Plans.
- 2) Duke Energy will complete relocations within each of the 3 sections as follows but poles will not be removed until all aerial utilities have completed their relocation work:
 - a. Williston Road (UO 7 and 12)

Relocation will be complete by 6/1/2018

b. New Walkertown (UO - 4,5,10 and 11)

Relocation will be complete by 7/1/2018

c. Old Walkertown (UO - 2)

Relocation will be complete by 11/15/2018

B) Duke Energy – Power (Transmission)

Contact Information: Jeremy Sabo

526 South Church St.

Charlotte, NC 28202

704-382-8396 Jeremy.sabo@duke-energy.com

- 1. See Utilities by Others Plans.
- 2. Duke Energy Transmission has completed all relocations
- 3. Duke Transmission has installed 199' poles to provide clearance requested by the Division.
- 4. Contractor must maintain a minimum of 15' of clearance from lowest conductor at all times. The contractor is advised of special conditions which will affect work at the site of this bridge. The contractor is responsible for meeting all OSHA (29 CFR 1926.1407-1411) requirements for working in the proximity of power lines.
- 5. Caution Note: Although the Transmission line may be de-energized during construction after proper notification to Duke Transmission, this line will remain in place and any caution will be needed when working in vicinity line. Minimum approach distances must be maintained at all times. The contractor shall place High Voltage Overhead Power signs inside the project limits. Do not assume the lines are grounded unless ground lines are in place and Duke Energy confirms lines are de-energized and grounded.
- C) Time Warner Cable / Spectrum

Contact Information:

Eric Vivod

1410 Trade Mart Blvd. Winston Salem, NC 27127

336-231-6109

Eric.vivod@twcable.com

- 1. See Utilities by Others Plans.
- 2. Time Warner / Spectrum facilities will be joint use on Duke Distribution poles.
- 3. Time Warner / Spectrum will complete relocations within each of the 3 sections as follows:
 - a. Williston Road

Relocation will be complete by 7/1/2018

b. New Walkertown

Relocation will be complete by 7/11/2018

c. Old Walkertown

Relocation will be complete by 11/28/2018

Project: U-2579C

County: Forsyth

D) Century Link

Contact Information:

Scott Bell 622 Elm Street Eden, NC 27288 336-627-6259 sbell@squan.com

- 1. See Utilities by Others Plans.
- 2. Century Link is joint use on Duke Energy's Distribution poles as well as some underground facilities.
- 3. Century Link will complete relocations within each of the 3 sections as follows:
 - a. Williston Road

Relocation will be complete by 7/12/2018

b. New Walkertown

Relocation will be complete by 7/22/2018

c. Old Walkertown

Relocation will be complete by 12/8/2018

E) AT&T Distribution

Contact Information:

Ron Stokes

Telics

5173 Gumtree Road

Winston Salem, NC 27107

336-682-1090 Rs7737@att.com

- 2. See Utilities by Others Plans.
- 3. AT&T will be joint use onto Duke Energy Distribution poles.
- 4. AT&T will complete relocations within each of the 3 sections as follows:
 - a. Williston Road

Relocation will be complete by 7/25/2018

b. New Walkertown

Relocation will be complete by 8/14/2018

c. Old Walkertown

Relocation will be complete by 12/31/2019

F) Piedmont Natural Gas (PNG) - Transmission

Contact Information: Jason Brown

Project: U-2579C UbO-4 County: Forsyth

4720 Piedmont Row Drive Charlotte, NC 28210 704-731-4681 jason.brown@piedmontng.com

4. See Utilities by Others Plans.

5. Piedmont Natural Gas has completed all relocations

G) Piedmont Natural Gas Distribution

Contact Information: David Robertson

2300 Lowery Street

Winston-Salem, NC 27101

336-726-7769

<u>David.robertson@piedmontng.com</u>

1. Piedmont Natural Gas distribution is NOT in conflict with proposed construction.

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
		F	ROADWAY ITEMS			
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0001000000-E	200	CLEARING & GRUBBING ACRE(S)	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUB- BING	4 ACR		
0005	0015000000-N	205	SEALING ABANDONED WELLS	8		
				EA		· · · · · · · · · · · · · · · · · · ·
0006	0022000000-Е	225	UNCLASSIFIED EXCAVATION	1,350,000 CY		
0007	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ************************************	Lump Sum	L.S.	
0008	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ************************************	Lump Sum	L.S.	
0009	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ************************************	Lump Sum	L.S.	
 0010	0029000000-N	SP	REINFORCED BRIDGE APPROACH FILL, STATION ************************************	Lump Sum	L.S.	
0011	0036000000-E	225	UNDERCUT EXCAVATION	10,000 CY		
0013	0127000000-N	 SP	EMBANKMENT SETTLEMENT GAUGES	2		
0010	01270000011	OI.	EMB/MIMENT SETTEMENT SASSES	EA		
0014	0134000000-E	240	DRAINAGE DITCH EXCAVATION	7,500 CY		
0015	0141000000-E	240	BERM DITCH CONSTRUCTION	1,060 LF	······································	
 0016	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	19,620 SY		
 0017	0177000000-Е	250	BREAKING OF EXISTING ASPHALT PAVEMENT	1,230 SY		
0018	0192000000-N	260	PROOF ROLLING	40 HR		
0019	0195000000-E	265	SELECT GRANULAR MATERIAL	35,900 CY		

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Coun	inty: Forsyth						
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount	
0020	0196000000-Е	270	GEOTEXTILE FOR SOIL STABILIZA- TION	47,300 SY			
0021	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	2,029 TON			
0022	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	6,911 SY	·		
0023	0342000000-E	310	**" SIDE DRAIN PIPE (36")	224 LF		·	
0024	0343000000-E	310	15" SIDE DRAIN PIPE	1,412			
0025	0344000000-Е	310	18" SIDE DRAIN PIPE	LF 368 LF			
0026	0345000000-E	310	24" SIDE DRAIN PIPE	300 LF			
0027	0348000000-E	310	**" SIDE DRAIN PIPE ELBOWS (15")	14 EA			
0028	0348000000-Е	310	**" SIDE DRAIN PIPE ELBOWS (18")	6 EA			
0029	0348000000-E	310	**" SIDE DRAIN PIPE ELBOWS (24")	2 EA			
0030	0354000000-E	310	***** RC PIPE CULVERTS, CLASS ****** (24", V)	228 LF			
0031	0366000000-Е	310	15" RC PIPE CULVERTS, CLASS	4,044 LF	······································		
0032	0372000000-E	310	18" RC PIPE CULVERTS, CLASS	1,628 LF			
0033	0378000000-E	310	24" RC PIPE CULVERTS, CLASS	464 LF			
0034	0384000000-Е	310	30" RC PIPE CULVERTS, CLASS	1,200 LF			
0035	0390000000-E	310	36" RC PIPE CULVERTS, CLASS	 448 LF			
0036	0396000000-E	310	42" RC PIPE CULVERTS, CLASS	220 LF			

	448000000-Е 	310	***** RC PIPE CULVERTS, CLASS IV (60")	260 LF		
			IV			
0038 04	448000000-Е	310		Lr		
			****" RC PIPE CULVERTS, CLASS IV (72")	244 LF		
0039 04		310	15" RC PIPE CULVERTS, CLASS IV	2,988 LF		
0040 04	448300000-Е	310	18" RC PIPE CULVERTS, CLASS IV	512 LF		
0041 04	 448400000-Е	310	24" RC PIPE CULVERTS, CLASS IV	800 LF		
0042 04	448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	84 LF		
0043 04	448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	288 LF		
0045 05	576000000-E	310	**" CS PIPE CULVERTS, *****" THICK (78", 0.138")	252 LF		
0046 05	594000000-E	310	24" CS PIPE CULVERTS, 0.064" THICK	380 LF		
0047 06		310	***" X ***" CS PIPE ARCH CUL- VERTS, *****" THICK (95" X 67", 0.109")	45 LF		
0048 09	995000000-E	340	PIPE REMOVAL	1,940 LF		
0049 10	 000000000-Е		6" SLOPE PROTECTION	500 SY		
0050 10	011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0051 10	04400000-E	501	LIME TREATED SOIL (SLURRY METHOD)	64,560 SY		,
0052 10	 066000000-Е		LIME FOR LIME TREATED SOIL	650 TON		
0053 10	 077000000-Е		#57 STONE	20 TON		
0054 10	099500000-Е		SHALLOW UNDERCUT	5,000 CY		
0055 10	099700000-E	505	CLASS IV SUBGRADE STABILIZA- TION	9,500 TON		

County: Forsyth

Line Item Number Sec Description Quantity **Unit Cost Amount** 0056 1110000000-E 510 STABILIZER AGGREGATE 500 TON GEOTEXTILE FOR PAVEMENT STA-0057 1115000000-E SP 84,754 **BILIZATION** SY SOIL CEMENT BASE 0058 1176000000-E 542 96,840 SY PORTLAND CEMENT FOR SOIL CE-0059 1187000000-E 542 2,670 MENT BASE TON 0060 1209000000-E 543 ASPHALT CURING SEAL 24.210 GAL 0061 1220000000-E 545 INCIDENTAL STONE BASE 1,000 TON 0062 1489000000-E ASPHALT CONC BASE COURSE, TYPE 610 2,620 B25.0B TON ASPHALT CONC INTERMEDIATE 0063 1498000000-E 610 1,230 COURSE, TYPE I19.0B TON ASPHALT CONC INTERMEDIATE 0064 1503000000-E 610 30,170 COURSE, TYPE I19.0C TON ASPHALT CONC SURFACE COURSE, 0065 1519000000-E 610 1,970 TYPE S9.5B TON 0066 1523000000-E ASPHALT CONC SURFACE COURSE, 25.440 TYPE S9.5C TON ASPHALT CONC SURFACE COURSE, 0067 1525000000-E 610 1,100 TYPE SF9.5A TON 0068 1693000000-E ASPHALT PLANT MIX, PAVEMENT 654 90 REPAIR TON 665 MILLED RUMBLE STRIPS (ASPHALT 0069 1840000000-E 36,200 CONCRETE) LF 0070 2000000000-N RIGHT OF WAY MARKERS 114 EΑ SUBDRAIN EXCAVATION 0071 2022000000-E 815 5,024 CY 0072 2033000000-E SUBDRAIN FINE AGGREGATE 815 2,512 CY 0073 2044000000-E 6" PERFORATED SUBDRAIN PIPE 815 14,950 LF

Line #	Item Number	Sec #	Description	Quantity Unit Cost	Amoun
0074	2070000000-N	815	SUBDRAIN PIPE OUTLET	30 EA	
0075	2077000000-Е	815	6" OUTLET PIPE	180 LF	
0076	2099000000-E	816	SHOULDER DRAIN	7,360 LF	
0077	2110000000-E	816	4" SHOULDER DRAIN PIPE	7,360 LF	
0078	2121000000-E	816	4" OUTLET PIPE FOR SHOULDER DRAINS		
 0079	2132000000-N	816	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	9 EA	
080	2143000000-E	818	BLOTTING SAND	15 TON	
0081	2209000000-E	838	ENDWALLS	9 CY	
0082	2220000000-Е	838	REINFORCED ENDWALLS	53 CY	
0083	2253000000-Е	840	PIPE COLLARS	1 CY	
0084	2275000000-Е	SP	FLOWABLE FILL	4 CY	
0085	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	92 EA	
0086	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	32 CY	
0087	2308000000-Е	840	MASONRY DRAINAGE STRUCTURES	53.2 LF	
0088	2354000000-N	840	FRAME WITH GRATE, STD 840.22	1 EA	
0089	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	3 EA	
 0090	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	31 EA	
 0091	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	50 EA	·
 0092	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	2 EA	

Country Founds

County:	Forsyth
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Line #	Item Number	Sec #	Description	Quantity Unit Cost	Amount
0093	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	2 EA	
0094	2396000000-N	840	FRAME WITH COVER, STD 840.54	4 EA	
0095	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	3 EA	
0096	2462000000-E	SP	**" SLUICE GATE (8")	2 EA	
0097	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	1,110 LF .	
0098	2556000000-E	846	SHOULDER BERM GUTTER	4,290 LF	······································
0099	2577000000-E	846	CONCRETE EXPRESSWAY GUTTER	640 LF	
0100	2612000000-E	848	6" CONCRETE DRIVEWAY	1,250 SY	
0101	2619000000-E	850	4" CONCRETE PAVED DITCH	42 SY	
0102	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	2,180 SY	
0103	2830000000-N	858	ADJUSTMENT OF MANHOLES	1 EA	
0104	2845000000-N	858	ADJUSTMENT OF METER BOXES OR VALVE BOXES	6 EA	
0105	3030000000-Е	862	STEEL BM GUARDRAIL	28,000 LF	
0106	3105000000-N	862	STEEL BM GUARDRAIL TERMINAL SECTIONS	2 EA	
0107	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EA	
0108	3210000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	17 EA	
0109	3215000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE	5 EA	
0110	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	23 EA	·

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0111	3288000000-N	SP	GUARDRAIL END UNITS, TYPE TL-2	4 EA		
0112	3317000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE B-77	12 EA		
 0113	338000000-Е	 862	TEMPORARY STEEL BM GUARDRAIL	1,200 LF		
 0114	3389150000-N	SP	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (TL-3)	6 EA	,	
 0115	350300000-Е	866	WOVEN WIRE FENCE, 47" FABRIC	24,560 LF		
 0116	3509000000-Е	866	4" TIMBER FENCE POSTS, 7'-6" LONG	1,520 EA		
 0117	3515000000-Е	866	5" TIMBER FENCE POSTS, 8'-0" LONG	440 EA		
 0118	3628000000-Е	876	RIP RAP, CLASS I	3,500 TON		
 0119	3635000000-E	876	RIP RAP, CLASS II	800 TON		
0120	3642000000-E	876	RIP RAP, CLASS A	20 TON		
0121	3649000000-E	876	RIP RAP, CLASS B	5,400 TON		
0122	3651000000-E	SP	BOULDERS	15 TON		
0123	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	24,700 SY		
0124	4054000000-Е	902	PLAIN CONCRETE SIGN FOUNDA- TIONS	1 CY		
0125	4057000000-E	SP	OVERHEAD FOOTING	51 CY		
0126	4060000000-Е	903	SUPPORTS, BREAKAWAY STEEL BEAM	472 LB		
0127	4072000000-Е	903	SUPPORTS, 3-LB STEEL U-CHANNEL	2,701 LF		
0128	4082100000-N	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ****** (410+00 -L-)	Lump Sum	L.S.	

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0129	4082100000-N	SP	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ****** (458+00 -L-)	Lump Sum	L.S.	
0130	4082100000-N	SP	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ****** (459+00 -L-)	Lump Sum	L.S.	
0131	4082100000-N	SP	SUPPORTS, OVERHEAD SIGN STRUC- TURE AT STA ****** (481+00 -L-)	Lump Sum	L.S.	
0132	4096000000-N	904	SIGN ERECTION, TYPE D	7		
				EA 		
0133	4102000000-N	904	SIGN ERECTION, TYPE E	83 EA		
0134	4108000000-N	904	SIGN ERECTION, TYPE F	15		
				EA		
0135	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER- HEAD) (A)	6 EA		
0136	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER- HEAD) (B)	1 EA		
 0137	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	2 EA		
0138	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	2 EA		
0139	4114000000-N	904	SIGN ERECTION, MILEMARKERS	6		
				EA		
0140	4115000000-N	904	SIGN ERECTION, OVERLAY (OVER- HEAD)	16 EA		
0141	4116100000-N	904	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (D)	1 EA		
0142	4116100000-N	904	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (F)	3 EA		
0143	4116200000-N	904	SIGN ERECTION, REPOSITION OVERHEAD	4 EA		·

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#	Item Number	Sec #	Description	Quantity	Unit Cost		Amoun
							:
0144	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	22			
			OTANNEL	EA			
0145	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	2			
				EA			
0146	4234000000-N	907	DISPOSAL OF SIGN, A OR B	4			
			(OVERHEAD)	EA			
0147	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	 833			****
			,	SF			
0148	4405000000-Е	1110	WORK ZONE SIGNS (PORTABLE)	 192			
				SF			
0149	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE	342			
			MOUNTED)	SF			
0150	4422000000-N	1120	PORTABLE CHANGEABLE MESSAGE	 21			
			SIGN (SHORT TERM)	DAY			
0454		4400	DDIMO				
0151	4430000000-N	1130	DRUMS	200 EA			
0152	4435000000-N	1135	CONES	50			
0102	4455000000-11	1100	OCNES	EA			
 0153	4445000000-E	 1145	BARRICADES (TYPE III)	 384			
				LF			
0154	4455000000-N	1150	FLAGGER	140			
				DAY			
0155	4516000000-N	1180	SKINNY DRUM	50			
				EA 			
0156	4520000000-N	1266	TUBULAR MARKERS (FIXED)	18			
				EA 			
0157	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	193			
				EA			
0158	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING	310			
			LINES (12", 90 MILS)	LF			
	4705000000-E	1205	THERMOPLASTIC PAVEMENT MARKING				
0159	4703000000-E	1205	LINES (16", 120 MILS)	46 LF			
0160	4710000000-Е	1205	THERMOPLASTIC PAVEMENT MARKING	256			
			LINES (24", 120 MILS)	LF			
 0161	4721000000-E	 1205	THERMOPLASTIC PAVEMENT MARKING	2		~~~~	***************************************
	· · · · · · · · · · · · · · · · · · ·		CHARACTER (120 MILS)	EA			

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0162	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	57 EA		
0163	4810000000-Е	1205	PAINT PAVEMENT MARKING LINES (4")	67,704 LF		
0164	 4815000000-Е	1205	PAINT PAVEMENT MARKING LINES	14,090		
0104	4013000000-L	1203	(6")	LF		
0165	4825000000-Е	1205	PAINT PAVEMENT MARKING LINES	3,830	***************************************	
			(12")	LF		
 0166	4835000000-Е	1205	PAINT PAVEMENT MARKING LINES	10		
			(24")	LF		,
 0167	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	32		
				EA		
0168	4847000000-Е	1205	POLYUREA PAVEMENT MARKING LINES (4", *********)	31,888		
			(HIGHLY REFLECTIVE ELEMENTS)	LF		
0169	 4847100000-Е	 1205	POLYUREA PAVEMENT MARKING	75,872		
			LINES (6", **********) (HIGHLY REFLECTIVE ELEMENTS)	LF		
 0170	4847120000-Е	1205	POLYUREA PAVEMENT MARKING	4,324		
			LINES (12", *********) (HIGHLY REFLECTIVE ELEMENTS)	LF		
 0171	4850000000-Е	1205	REMOVAL OF PAVEMENT MARKING	4,432		
			LINES (4")	LF		
 0172	4855000000-Е	1205	REMOVAL OF PAVEMENT MARKING	23,230		
			LINES (6")	LF		
 0173	486000000-Е	 1205	REMOVAL OF PAVEMENT MARKING	385		
			LINES (8")	LF		
 0174	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING	3,150		
			LINES (12")	LF		
 0175	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING	10		
			LINES (24")	LF		
 0176	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING	5		·
			SYMBOLS & CHARACTERS	EA		
 0177	4900000000-N	1251	PERMANENT RAISED PAVEMENT	257		
			MARKERS	EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost		Amount
0178	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	1,247 EA			
0179	4915000000-E	1264	7' U-CHANNEL POSTS	3 EA			
0180	4935000000-N	1267	FLEXIBLE DELINEATORS (CRYSTAL)	65 EA			
0181	4940000000-N	1267	FLEXIBLE DELINEATORS (YELLOW)	62 EA			
0182	4945000000-N	1267	FLEXIBLE DELINEATORS (CRYSTAL & RED)				
0183	4950000000-N	1267	FLEXIBLE DELINEATORS (YELLOW & RED)	55 EA		·	
0184	4955000000-N	1264	OBJECT MARKERS (END OF ROAD)	3 EA			
0185	5326200000-Е	1510	12" WATER LINE ·	1,452 LF			
0186	5326600000-E	1510	16" WATER LINE	2,245 LF			
0187	5329000000-E	SP	DUCTILE IRON WATER PIPE FITTINGS	8,030 LB			
0188	5572200000-E	1515	12" TAPPING VALVE	2 EA			
0189	5572600000-E	1515	16" TAPPING VALVE	2 EA			;
0190	5589100000-E	1515	1" AIR RELEASE VALVE	2 EA			
0191	5606600000-E	1515	6" BLOW OFF	1 EA			
0192	5648000000-N	1515	RELOCATE WATER METER	8 EA			
0193		1515	RELOCATE FIRE HYDRANT	5 EA			
0194	5801000000-E	1530	ABANDON 8" UTILITY PIPE	222 LF			
0195	5804000000-E	1530	ABANDON 12" UTILITY PIPE	440 LF			
0196	5810000000-E	1530	ABANDON 16" UTILITY PIPE	355 LF			
0197	5815000000-N	1530	REMOVE WATER METER	4 EA		***************************************	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0198	5815500000-N	1530	REMOVE FIRE HYDRANT	2		
				EA		
0199	5816000000-N	1530	ABANDON UTILITY MANHOLE	2		
0000		4520	DEMONE LITTLE MANUALE	EA		
0200	5828000000-N	1530	REMOVE UTILITY MANHOLE	1 EA		
 0201	5836000000-E	1540	24" ENCASEMENT PIPE	210		
				LF		
0202	5836200000-E	1540	30" ENCASEMENT PIPE	305		
0203	5882000000-N	SP	GENERIC UTILITY ITEM ABANDON SEWER CONNECTION	2 EA		
0204	600000000-Е	1605	TEMPORARY SILT FENCE	53,500		
0205	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	1,750 TON		
0206	6009000000-Е	1610	STONE FOR EROSION CONTROL, CLASS B	12,000		
				TON		
0207	6012000000-Е	1610	SEDIMENT CONTROL STONE	19,720		
				TON		
0208	6015000000-Е	1615	TEMPORARY MULCHING	226.5 ACR		
 0209	6018000000-E	4620	SEED FOR TEMPORARY SEEDING	***************************************		
0209	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	10,500 LB		
 0210	6021000000-Е	1620	FERTILIZER FOR TEMPORARY SEED-	 54.5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
			ING	TON		
 0211	6024000000-E		TEMPORARY SLOPE DRAINS	11,000		
0211	0021000000 E	1022	PENN STORY SESTED STORMS	LF		
0212	6029000000-Е	SP	SAFETY FENCE	14,000		
				LF		
0213	603000000-Е	1630	SILT EXCAVATION	321,500		
0214	6036000000-E	1631	MATTING FOR EROSION CONTROL	282,775 SY		
 0215	 6037000000-Е		COIR FIBER MAT			
J_ 10	557 700000-L	Oi.	CONTRACTION OF THE PROPERTY OF	SY		
0216	6038000000-Е	SP	PERMANENT SOIL REINFORCEMENT	2,500		
			MAT	SY		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	•	Amount
0217	6042000000-E	1632	1/4" HARDWARE CLOTH	5,600 LF			
0218	6045000000-E	SP	**" TEMPORARY PIPE (18")	230 LF			
 0219	6046000000-E	1636	TEMPORARY PIPE FOR STREAM CROSSING	200 LF			
 0220	6070000000-N	1639	SPECIAL STILLING BASINS	24 EA			
0221	6071012000-Е	SP	COIR FIBER WATTLE	7,300 LF			
0222	6071020000-E	SP	POLYACRYLAMIDE (PAM)	6,300 LB			
0223	6071030000-E	1640	COIR FIBER BAFFLE	17,500 LF			
0224	6071050000-E	SP	**" SKIMMER (1-1/2")	21 EA			
 0225	6071050000-E	SP	**" SKIMMER (2")	12 EA			
 0226	6071050000-E	SP	**" SKIMMER (2-1/2")	7 EA	·	********	
 0227	6071050000-Е	SP	**" SKIMMER (3")	2 EA			
 0228	6071050000-Е	SP	**" SKIMMER (4")	1 EA			
0229	6084000000-E	1660	SEEDING & MULCHING	147 ACR			
0230	6087000000-Е	1660	MOWING	138 ACR			
0231	6090000000-E	1661	SEED FOR REPAIR SEEDING	2,300 LB			
0232	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	6 TON			
0233	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	3,475 LB			
0234	6108000000-E	1665	FERTILIZER TOPDRESSING	103.75 TON			
0235	6111000000-E .	SP	IMPERVIOUS DIKE	547 LF			

County: Forsyth

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0236	6114500000-N	1667	SPECIALIZED HAND MOWING	120		
0237	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	MHR 113		
0238	6120000000-E	 SP	CULVERT DIVERSION CHANNEL	EA 1,244		
				CY		
0239	6123000000-E	1670	REFORESTATION	7 ACR		
0240	6132000000-N	SP	GENERIC EROSION CONTROL ITEM CONCRETE WASHOUT STRUCTURE	10 EA		
0241	7060000000-E	1705	SIGNAL CABLE	1,700 LF		
0242	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	12 EA		
0243	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	1 EA		
0244	7252000000-E	1710	MESSENGER CABLE (1/4")	300 LF		
0245	7264000000-E	1710	MESSENGER CABLE (3/8")	1,025 LF		
0246	7279000000-E	1715	TRACER WIRE	9,500 LF	·	
0247	7300000000-E	1715	UNPAVED TRENCHING (********) (1,2")	1,700 LF		
 0248	7300000000-E	1715	UNPAVED TRENCHING (********) (2,2")	9,100 LF		
0249	7300000000-E	1715	UNPAVED TRENCHING (*********) (3,2")	100 LF		
0250	7301000000-E	1715	DIRECTIONAL DRILL (********) (2,2")	300 LF		
 0251	7301000000-E	1715	DIRECTIONAL DRILL (*********) (4,2")	400 LF		
 0252	7312000000-N	1716	JUNCTION BOX (***********************) (SPECIAL OVER-SIZED HEAVY DUTY)	2 EA		
0253	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	25 EA		

County: Forsyth

Line #	Item Number	Sec #	Description	Quantity Unit Cost	Amoun
0254	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEA-VY DUTY)	22 EA	
0255	7360000000-N	1720	WOOD POLE	2 EA	
0256	7372000000-N		GUY ASSEMBLY	2	
 0257	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	2 EA	
0258	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	860 LF	
0259	7456000000-E	1726	LEAD-IN CABLE (************) (14-2)	3,350 LF	
0260	7516000000-E		COMMUNICATIONS CABLE (**FIBER) (72)	9,900 LF	
0261	7528000000-E	1730	DROP CABLE	700 LF	
0262	7540000000-N	1731	SPLICE ENCLOSURE	3 EA	
0263	7541000000-N	1731	MODIFY SPLICE ENCLOSURE	1 EA	
0264	7552000000-N	1731	INTERCONNECT CENTER	5 EA	
0265	7566000000-N	1733	DELINEATOR MARKER	24 EA	
0266	7575142000-N	1736	900MHZ RADIO	2 EA	
0267	7576000000-N	SP	METAL STRAIN SIGNAL POLE	8 EA	
0268	7613000000-N	SP	SOIL TEST	10 EA	
0269	7614100000-E	SP	DRILLED PIER FOUNDATION	58 CY	
0270	7636000000-N	1745	SIGN FOR SIGNALS	8 EA	
0271	7684000000-N	1750	SIGNAL CABINET FOUNDATION	2 EA	
0272	7756000000-N	1751	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)	2 EA	

ITEMIZED PROPOSAL FOR CONTRACT NO. C203979

County: Forsyth

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
			,			
0273	7780000000-N	1751	DETECTOR CARD (TYPE 2070L)	9 EA		
0274	7901000000-N	1753	CABINET BASE EXTENDER	2 EA		
 0275	7980000000-N	SP	GENERIC SIGNAL ITEM 5/8" X 10' GROUNDING ELECTRODE	 16 EA		
 0276	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV CAMERA ASSEMBLY	2 EA		
 0277	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV METAL POLE	2 EA		
 0278	7980000000-N	SP	GENERIC SIGNAL ITEM CENTRAL MEDIA CONVERTER	2		
 0279	7980000000-N	SP	GENERIC SIGNAL ITEM DIGITAL HARDWARE VIDEO DECODER	2		
 0280	7980000000-N	 SP	GENERIC SIGNAL ITEM	EA 2		
 0281	7980000000-N	 SP	DMS GENERIC SIGNAL ITEM	EA 2		
	/980000000-IV		DMS ACCESS LADDER	EA		
0282	7980000000-N	SP	GENERIC SIGNAL ITEM DMS PEDESTAL STRUCTURE	2 EA		
0283	7980000000-N	SP	GENERIC SIGNAL ITEM EQUIPMENT CABINET FOUNDATION	1 EA		
0284	7980000000-N	SP	GENERIC SIGNAL ITEM EQUIPMENT CABINET DISCONNECT	4 EA		
0285	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	4 EA		
 0286	7980000000-N	SP	GENERIC SIGNAL ITEM FIBER-OPTIC SPLICE CABINET	1 EA		
0287	7980000000-N	 SP	GENERIC SIGNAL ITEM FIELD EQUIPMENT CABINET	2 EA		
 0288	7980000000-N	SP	GENERIC SIGNAL ITEM METER BASE/DISCONNECT COMBINA- TION PANEL	2 EA		
 0289	7980000000-N	 SP	GENERIC SIGNAL ITEM WOOD PEDESTAL	2 EA		

Oct 31, 2017 11:02 am

ITEMIZED PROPOSAL FOR CONTRACT NO. C203979

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County: Forsyth

Line #	Item Number	Sec #	Description	Quantity	Unit Cost		Amount
0290	7985000000-N	SP	GENERIC SIGNAL ITEM INTEGRATION AND CONFIGURATION	Lump Sum	L.S.		
0291	7990000000-E	SP	GENERIC SIGNAL ITEM	60		~~=-40-540-044-044-0-46	
			#4 SOLID BARE GROUNDING CON- DUCTOR	LF			
0292	7990000000-E	 SP	GENERIC SIGNAL ITEM	300			
			3-WIRE COPPER FEEDER COND- UCTORS	LF			
0293	7990000000-E	 SP	GENERIC SIGNAL ITEM	600			
			4-WIRE COPPER FEEDER COND- UCTORS	LF			
0294	7992000000-E	 SP	GENERIC SIGNAL ITEM	16			
			OVERHEAD DMS STRUCTURE FOOT- INGS	CY			
				*			

0295	1121000000-E	520	AGGREGATE BASE COURSE	80,300								
AA1				TON								
0296	1231000000-E	560	SHOULDER BORROW	18,000								
AA1				CY								
0297	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE	33,300								
AA1			B25.0C	TON								
 0298	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	4,785								
AA1				TON								
			*** OR ***									
0299	1121000000-E	520	AGGREGATE BASE COURSE	4,020								
AA2				TON								
0300	1231000000-E	560	SHOULDER BORROW	14,500								
AA2				CY								
0301	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE	78,860								
AA2			B25.0C	TON								
0302	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	6,790								
AA2				TON								

***** END SCHEDULE AA *****

ITEMIZED PROPOSAL FOR CONTRACT NO. C203979

С	ounty:	Forsyth			
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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0340	1275000000-E	600	PRIME COAT	3,150 GAL		
	. ,	•	CULVERT ITEMS			
0303	8126000000-N	414	CULVERT EXCAVATION, STA ****** (397+73.00 -L-)	Lump Sum	L.S.	
0304	8126000000-N	414	CULVERT EXCAVATION, STA ****** (437+96.50 -L-)	Lump Sum	L.S.	
0305	8133000000-E	414	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT	974 TON		
0306	8196000000-E	420	CLASS A CONCRETE (CULVERT)	1,609.4 CY	······································	
0307	8245000000-E	425	REINFORCING STEEL (CULVERT)	130,376 LB		
			STRUCTURE ITEMS			·
0308	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ************************************	Lump Sum	L.S.	
0309	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ************************************	Lump Sum	L.S.	
0310	8105540000-E		3'-6" DIA DRILLED PIERS IN SOIL	564 LF		
0311	8105640000-E	411	3'-6" DIA DRILLED PIERS NOT IN SOIL	270 LF	······································	
0312	8111400000-E	411	PERMANENT STEEL CASING FOR 3'-6" DIA DRILLED PIER	128 LF		
0313	8112730000-N	450	PDA TESTING	4 EA		
0314	8113000000-N	411	SID INSPECTIONS	2 EA		

ITEMIZED PROPOSAL FOR CONTRACT NO. C203979

County: Forsyth

Line Item Number Sec Description Quantity **Unit Cost Amount** 0315 8114000000-N SPT TESTING 411 16 EΑ 0316 8115000000-N **CSL TESTING** 411 2 EΑ **0317** 8147000000-E REINFORCED CONCRETE DECK SLAB 420 59,989 SF **GROOVING BRIDGE FLOORS 0318** 8161000000-E 420 58,288 SF 0319 8182000000-E 420 CLASS A CONCRETE (BRIDGE) 807.3 CY 0320 8210000000-N 422 BRIDGE APPROACH SLABS, STATION L.S. Lump Sum (21+27.27 -Y2-) 0321 8210000000-N BRIDGE APPROACH SLABS, STATION 422 Lump Sum L.S. (29+24.97 -Y1-) 0322 8210000000-N BRIDGE APPROACH SLABS, STATION Lump Sum L.S. (473+70.00 -L- LT) 0323 8210000000-N 422 BRIDGE APPROACH SLABS, STATION L.S. Lump Sum (473+70.00 -L- RT) 0324 8217000000-E 425 REINFORCING STEEL (BRIDGE) 192,761 LB 0325 8238000000-E SPIRAL COLUMN REINFORCING 25,224 STEEL (BRIDGE) LB 54" PRESTRESSED CONCRETE GIR-0326 8265000000-E 430 4,517.26 **DERS** LF MODIFIED 72" PRESTRESSED CONC 0327 8277000000-E 430 2,180.17 **GIRDERS** LF PILE DRIVING EQUIPMENT SETUP 0328 8328200000-E 84 FOR *** STEEL PILES EΑ (12 X 53) 0329 8328200000-E PILE DRIVING EQUIPMENT SETUP 38 FOR *** STEEL PILES EΑ (14 X 73) **0330** 8364000000-E 450 HP12X53 STEEL PILES 4,465 LF 0331 8384000000-E HP14X73 STEEL PILES 830 LF

1102/Oct31/Q3827966.07/D1523608034000/E338

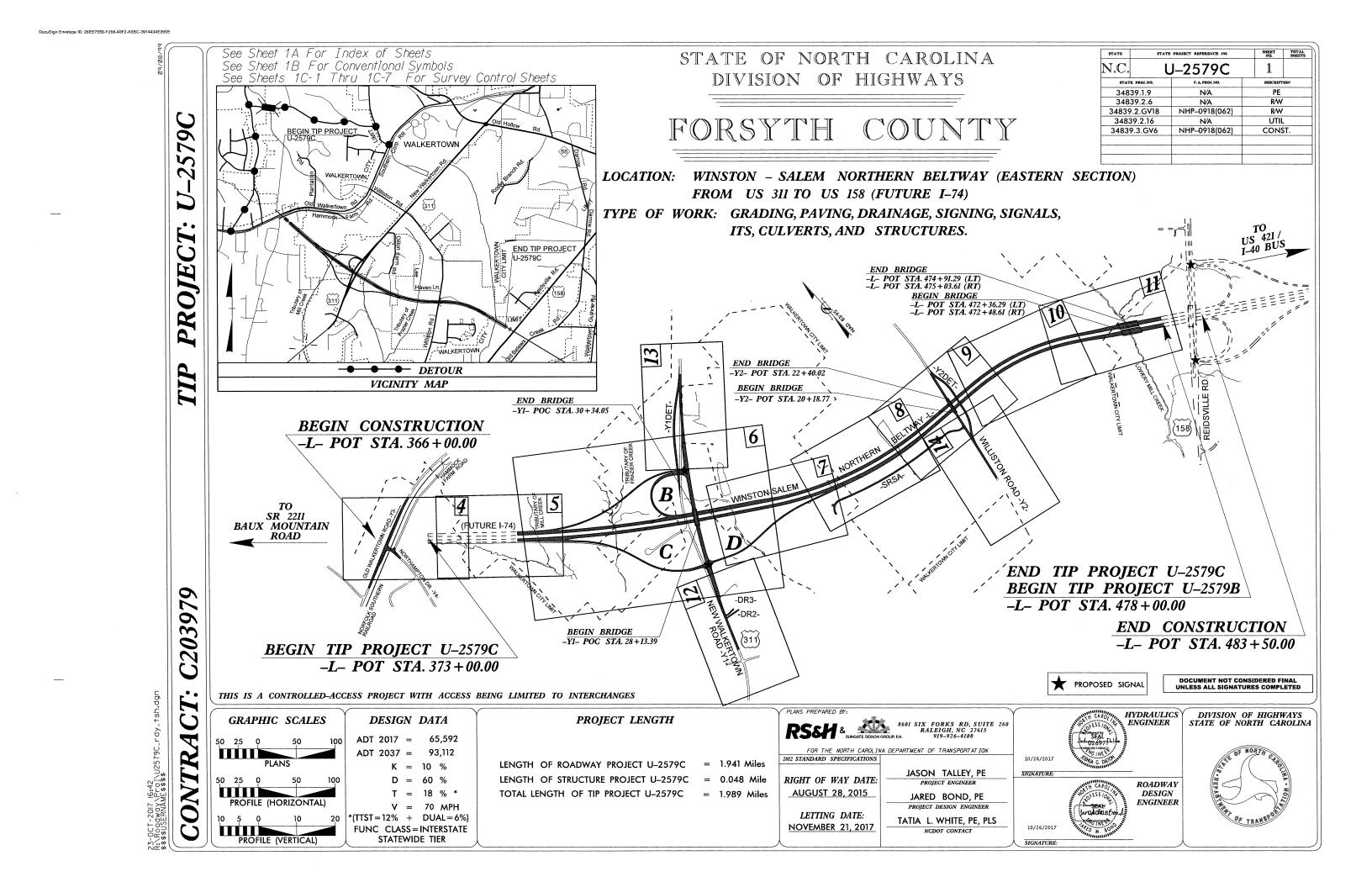
ITEMIZED PROPOSAL FOR CONTRACT NO. C203979

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County: Forsyth	
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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amoun
0332	8391000000-N	450	STEEL PILE POINTS	38		
				EA	*	
0333	8475000000-E	460	TWO BAR METAL RAIL	423.76		
				LF		
0334	8503000000-E	460	CONCRETE BARRIER RAIL	1,451.1		
				LF		
0335	8517000000-E	460	1'-**"X *****" CONCRETE PARA-	439.13		
			PET (1'-2" X 3'-2 3/4")	LF		
			(12 7(0 2 0/1)			
0336	8531000000-E	462	4" SLOPE PROTECTION	1,489		
				SY		
0337	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	2,000		
				TON		
0338	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	2,220		
				SY		
0339	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
				,		

Total Amount Of Bid For Entire Project :



PROJECT REFERENCE NO. SHEET NO.

U-2579C 3B-3

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
SUMMARY_NO_1					
-Y3- 13+25.00 TO 26+50.00	397		4,801	4,404	
-Y4- 10+10.00 TO 12+42.12	59		326	267	
-L- 392+50.00 TO 403+00.00	2,422		434,890	432,468	
-L- 403+00.00 TO 410+06.22	138,041		280		137,761
(INCLUDES PORTION OF -Y1RPB-, -Y1RPC-,&-Y1LPB-)					
-Y1RPB- 19+00.00 TO 32+00.00	61,361		117,251	55,890	
-Y1RPC- 18+35.00 TO 31+11.75	5,112		138,502	133,390	
-Y1LPB- 13+50.00 TO 18+00.00	20,095		46		20,049
-Y1- 10+75.00 TO 28+13.39	3,334		12,398	9,064	
-Y1- 30+34.05 TO 48+50.00	26,661		32,983	6,322	
(INCLUDES -Y1DET- REMOVAL)					
-DR2- 10+16.50 TO 12+10.00	25		1,030	1,005	
(INCLUDES -DR3-)				·	
-Y1DET- 15+93.03 TO 33+46.92	6,019		12,352	6,333	
SUBTOTAL	263,526		754,859	649,143	157,810
SUMMARY NO. 2					
-L- 410+06.22 TO 440+00.00	290,804		209,861		80,943
(INCLUDES PORTION OF -Y1RPD- & -SRSA-)					
-L- 440+00.00 TO 447+50.00	45,157		42,133		3,024
(INCLUDES PORTION OF -SRSA- & -Y2DET-)					
-Y1RPD- 18+60.00 TO 31+50.00	24,095		136,015	111,920	
-Y2- 10+00.00 TO 20+18.52	2,491		926		1,565
-Y2- 22+40.27 TO 26+50.00	575		1,152	577	
(INCLUDES -Y2DET- REMOVAL)					
-SRSA- 10+00.00 TO 12+00.00	493		13		480
-SRSA- 29+50.00 TO 31+00.00	438		20		418
-Y2DET- 15+00.00 TO 20+00.00	577		883	306	
-Y2DET- 23+00.00 TO 28+03.31	1,104		12		1,092
SUBTOTAL	365,734		391,015	112,803	87,522

	UNCLASSIFIED				
LOCATION	EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
SUMMARY NO. 3					
-L- 447+50.00 TO 472+42.45	691,856		17,192		674,664
SUBTOTAL	691,856		17,192		674,664
SUMMARY NO. 4					
-L- 474+97.45 TO 478+00.00	159		43,205	43,046	
SUBTOTAL	159		43,205	43,046	
TOTAL	1,321,275		1,206,271	804,992	919,996
LOSS DUE TO CLEARING & GRUBBING	-30,000				-30,000
WASTE IN LIEU OF BORROW				-804,992	-804,992
PROJECT TOTAL	1,291,275		1,206,271		85,004
GRAND TOTAL	1,291,275		1,206,271		85,004
SAY	1,350,000				
PAVEMENT STRUCTURE VOLUME	47,500				
				·	
	EARTHWORK	TOTALS FOR A	LTERNATE PAVE	MENT DESIGN	
ADJUSTMENT FOR ALTERNATE PAVEMENT DESIGN	-13,000		10,200	23,200	
LOSS DUE TO CLEARING & GRUBBING	-30,000		-		-30,000
WASTE IN LIEU OF BORROW				-828,192	-828,192
PROJECT TOTAL	1,278,275		1,216,471		61,804
	1.070.075	× .	1 21/ 471		(1.00.1
GRAND TOTAL	1,278,275		1,216,471		61,804
SAY	1,350,000				
PAVEMENT STRUCTURE VOLUME	35,000			L	

QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL RE-CROSS-SECTION THE WORK ACCURATELY WHEN THE PROJECT IS STAKED OUT. THESE CROSS-SECTION NOTES WILL BE USED IN COMPUTING THE FINAL QUANTITIES FOR WHICH THE CONTRACTOR WILL BE PAID.

EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EST. UNDERCUT = 10,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015.

EST. SELECT GRANULAR MATERIAL = 35,900 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015.

EST. SHALLOW UNDERCUT = 5,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015.

EST. DDE = 7,500 CY

EST. PAVEMENT STRUCTURE VOLUME = 47,500 CY

EST. SHOULDER BORROW = 18,000 CY

EST. PAVEMENT STRUCTURE VOLUME FOR ALTERNATIVE PAVEMENT DESIGN = 35,000 CY

EST. SHOULDER BORROW FOR ALTERNATIVE PAVEMENT DESIGN = 14,500 CY

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJ. REFERENCE NO. SHEET NO.
U-2579C X-1B

Quantities are approximate only. The Resident Engineer will

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

re-cross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKM	ENT COLUMN DOE	S NOT INCLUDE E	BACKFILL FOR UN	DERCUT		CR	OSS-SE	SHONS	SUMMAI	Υ Υ				THES IOI WINCH II			
Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt
L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	L	(cu. yd.)	(cu. yd.)	Y1	(cu. yd.)	(cu. yd.)
373+00.00	0	0	397+00.00	0	19333	418+00.00	2438	11	441+50.00	45	7062	463+50.00	13296	0	18+00.00	38	11
373+50.00	0	0	397+50.00	0	24189	418+50.00	4801	0	441+77.34	38	3025	463+87.62	9952	0	18+50.00	76	36
374+00.00	0	0	398+00.00	0	28712	419+00.00	7660	0	442+00.00	18	1144	464+00.00	3310	o	18+78.66	38	20
374+50.00	0	0	398+50.00	0	30228	419+50.00	9814	o	442+50.00	172	1384	464+50.00	13399	0	19+00.00	30	2
374+77.67	0	0	399+00.00	0	28522	420+00.00	11122	0	443+00.00	405	1858	465+00.00	13216	0	19+50.00	55	5
375+00.00	0	0	399+50.00	0	23147	420+47.15	11592	0	443+50.00	591	614	465+50.00	13141	0	20+00.00	35	6
375+50.00	0	0	400+00.00	0	16176	420+61.30	3730	0	444+00.00	1144	161	466+00.00	13469	0	20+50.00	37	5:
376+00.00	0	0	400+50.00	0	10701	421+00.00	10433	0	444+50.00	1854	21	466+50.00	13678	0	21+00.00	45	3
376+50.00	0	0	401+00.00	0	6443	421+50.00	13662	0	444+77.34	1287	0	467+00.00	13152	o	21+23.74	25	. 1
377+00.00	0	0	401+50.00	1	3222	422+00.00	14025	o	445+00.00	1350	0	467+50.00	11961	o	21+50.00	32	21
377+50.00	0	0	402+00.00	330	1160	422+50.00	16329	0	445+50.00	4277	0	468+00.00	10332	o	21+83.74	22	25
377+77.67	0	0	402+50.00	836	392	423+00.00	17976	0	446+00.00	6120	0	468+07.62	1402	0	22+00.00	0	1
378+00.00	0	0	403+00.00	1255	255	423+50.00	16826	0	446+50.00	7804	0	468+40.00	5349	0	22+50.00	0	2
378+50.00	0	0				424+00.00	15416	0	447+00.00	9195	0	468+50.00	1465	0	23+00.00	0	20
379+00.00	0	0	Station	Uncl. Exc.	Embt	424+50.00	14057	0	447+50.00	10708	0	469+00.00	6140	0	23+40.94	0	20
379+50.00	0	0				425+00.00	13165	0				469+50.00	4055	0	23+50.00	8	
380+00.00	0	0	L	(cu. yd.)	(cu. yd.)	425+50.00	12307	0	Station	Uncl. Exc.	Embt	470+00.00	2033	20	23+64.30	27	18
380+26.43	0	0	403+00.00	0	0	426+00.00	10565	0				470+50.00	587	413	24+00.00	48	48
380+50.00	0	0	403+50.00	2131	130	426+50.00	8138	0	L	(cu. yd.)	(cu. yd.)	471+00.00	36	1636	24+24.30	13	
381+00.00	0	0	404+00.00	3594	31	427+00.00	5180	0	447+50.00	0	0	471+40.00	0	2452	24+50.00	8	35
381+50.00	0	0	404+50.00	6118	0	427+50.00	2108	543	448+00.00	11923	0	471+50.00	0	740	25+00.00	166	52
382+00.00	0	0	405+00.00	9092	0	428+00.00	381	1986	448+50.00	12286	0	472+42.45	0	9250	25+50.00	396	32
382+50.00	0	0	405+50.00	11101	0	428+50.00	86	3170	448+86.48	8875	0				26+00.00	321	37
383+00.00	0	0	406+00.00	12458	0	429+00.00	411	2820	449+00.00	3332	0	Station	Uncl. Exc.	Embt	26+50.00	172	42
383+50.00	0	0	406+50.00	12862	0	429+50.00	1183	1324	449+50.00	12637	0				26+89.15	187	27
384+00.00	0	0	407+00.00	12941	0	430+00.00	1854	260	450+00.00	12461	0	L	(cu. yd.)	(cu. yd.)	27+50.00	431	24
384+50.00	0	0	407+50.00	12969	0	430+50.00	2002	36	450+50.00	12306	0	474+92.45	0	0	28+13.39	385	
385+00.00	0	0	408+00.00	12128	0	431+00.00	1536	30	451+00.00	12277	0	475+50.00	0	9568	20.10.00	- 330	
385+50.00	0	0	408+50.00	11620	0	431+50.00	680	275	451+50.00	11807	0	476+00.00	0	8866	Station	Uncl. Exc.	Embt
386+00.00	0		409+00.00	10844	0	432+00.00	155	1107	452+00.00	11966	0	476+50.00	0	7442			
386+24.41	0		409+50.00	9921	34	432+50.00	64	2423	452+50.00	13566	0	477+00.00	0	5168	Y1	(cu. yd.)	(cu. yd.)
386+50.00	0	0	410+06.22	10262	38		43	3652	453+00.00	15924	0	477+50.00	0	3228	30+34.05	1 , , ,	
386+77.67	0	0	410+00.22	10202		433+50.00	57	4181	453+06.48	2251	0	478+00.00	159		30+78.60		175
387+00.00	0	0	Station	Uncl. Exc.	Embt	434+00.00	45	4185		16371	0	470.00.00	100	1702	31+00.00	0	135
	0	0				434+50.00	10	4054	454+00.00	20736	0	Station	Uncl. Exc.	Embt	31+50.00	0	425
387+50.00	0	0	L	(cu. yd.)	(cu. yd.)	435+00.00	119	3829	454+50.00	21822	0				31+78.60	0	277
388+00.00 388+50.00	0	0	410+06.22	(0,)	(02) 2,	435+50.00	568	4226	455+00.00	22059	0	Y1	(cu. yd.)	(cu. yd.)	32+00.00	0	196
	0	0	410+50.00	7329	0	436+00.00	1178	5375		21521	0	10+75.00	, , ,	, , ,	32+50.00	0	350
389+00.00	0	0	411+00.00	7842	0	436+50.00	1332	6939	14.11	20943	0	11+50.00	19	77	33+00.00		238
389+50.00	0	0	411+50.00	6794	0	437+00.00	820	10002	456+50.00	20785	0	12+00.00	22		33+50.00	0	198
390+00.00	0				0	437+50.00	251	14580	457+00.00	21092	0	12+50.00	28	205	33+84.15	0	109
390+50.00	0		412+00.00	5957	0		80			21370	0		36	258	34+00.00	0	40
391+00.00	0	U	412+50.00	4668	0	438+00.00		19194	457+50.00		0	13+00.00					71
391+50.00	0	- 0	413+00.00	2129	0	438+50.00	91 68	20062	458+00.00	21891	0	13+50.00	50		34+44.15	0	
392+00.00	0	C	413+50.00	305	1046			17915	458+50.00	22435	0	14+00.00	49	227	34+50.00	0	
392+50.00	0		414+00.00	0	3693		72	15816	459+00.00	22390	0	14+50.00	37	169	35+00.00	63	
393+00.00	0	18347		0	4844		93	13255		21977	0	15+00.00	42		35+50.00	249	
393+50.00	0	18606		133	3106		Unal Fra		460+00.00	21293	0	15+50.00	53		36+00.00	617	
394+00.00	0	19259		1188	909	Station	Uncl. Exc.	Embt	460+50.00	20219	0	15+98.74	65	132	36+50.00	1116	
394+50.00	0	20124	7.74	3593	0		(5)	(461+00.00	18853	0	16+00.00	2	3	36+51.92	53	
395+00.00	0	21764		5707	0	L	(cu. yd.)	(cu. yd.)	461+50.00	17647	. 0	16+50.00	77		37+00.00	1778	
395+50.00	0	25291		5738	0	440+00.00	0	0	462+00.00	16381	0	17+00.00	95		37+50.00	2471	
396+00.00	0	25853		4006	25		83	10886		15240	0	17+50.00	107		38+00.00	2604	
396+50.00	0	20684	4 417+61.30	892	11	441+00.00	56	8956	463+00.00	14140	0	17+78.66	57	117	38+50.00	2517	

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-2579C COUNTY: Forsyth DATE: 10/23/2017 COMPILED BY: JMB SHEET 1 OF 1

STATION	STATION		EXCAVATIO	N			EMBAN	NKMENT			WASTE				
		TOTAL UNCLASS.	ROCK	UNDERCUT		SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +20%	BORROW	ROCK	SUITABLE	UNSUIT.	TOTAL
-Y3- 13+25.00	-Y3- 26+50.00	397				397	4,001		4,001	4,801	4,404				
-Y4- 10+10.00	-Y4- 12+42.12	59				59	272		272	326	267				
-L- 392+50.00	-L- 403+00.00	2,422				2,422	362,408		362,408	434,890	432,468				
-L- 403+00.00	-L- 410+06.22	138,041				138,041	233		233	280			137,761		137,761
-Y1RPB- 19+00.00	-Y1RPB- 32+00.00	61,361				61,361	97,709		97,709	117,251	55,890				
-Y1RPC- 18+35.00	-Y1RPC- 31+11.75	5,112				5,112	115,418		115,418	138,502	133,390				
-Y1LPB- 13+50.00	-Y1LPB- 18+00.00	20,095				20,095	38		38	46			20,049		20,049
*-Y1- 10+75.00	-Y1- 28+13.39	3,334				3,334	10,332		10,332	12,398	9,064				
*-Y1- 30+34.05	-Y1- 48+50.00	26,661				26,661	27,486		27,486	32,983	6,322				
-DR2- 10+16.50	-DR2- 12+10.00	25				25	858		858	1,030	1,005				
-Y1DET- 15+93.03	-Y1DET- 33+46.92	6,019				6,019	10,293		10,293	12,352	6,333				
	SUBTOTAL	263,526				263,526	629,048		629,048	754,859	649,143		157,810		157,810
-L- 410+06.22	-L- 440+00.00	290,804				290,804	174,884		174,884	209,861			80,943		80,943
-L- 440+00.00	-L- 447+50.00	45,157				45,157	35,111		35,111	42,133			3,024		3,024
-Y1RPD- 18+60.00	-Y1RPD- 31+50.00	24,095				24,095	113,346		113,346	136,015	111,920				
*-Y2-10+00.00	-Y2- 20+18.52	2,491				2,491	772		772	926			1,565		1,565
*-Y2- 22+40.27	-Y2- 26+50.00	575				575	960		960	1,152	577				
-SRSA- 10+00.00	-SRSA- 12+00.00	493				493	11		11	13			480		480
-SRSA- 29+50.00	-SRSA- 31+00.00	438				438	17		17	20			418		418
-Y2DET- 15+00.00	-Y2DET- 20+00.00	577				577	736		736	883	306				
-Y2DET- 23+00.00	-Y2DET- 28+03.31	1,104				1,104	10		10	12			1,092		1,092
	SUBTOTAL	365,734				365,734	325,847		325,847	391,015	112,803		87,522		87,522
		,													
-L- 447+50.00	-L- 472+42.45	691,856	1,107			690,749	14,511	1,107	13,404	17,192			674,664		674,664
	SUBTOTAL	691,856	1,107			690,749	14,511	1,107	13,404	17,192			674,664		674,664
1															
-L- 474+97.45	-L- 478+00.00	159	wara - 111 -			159	36,004		36,004	43,205	43,046				
	SUBTOTAL	159				159	36,004		36,004	43,205	43,046				
TOTAL		1,321,275	1,107			1,320,168	1,005,410	1,107	1,004,303	1,206,271	804,992		919,996		919,996
LOSS DUE TO CLEARING &		-30,000				-30,000							-30,000		-30,000
WASTE IN LIEU OF BORRO	OW								<u> </u>		-804,992		-804,992		-804,992
PROJECT TOTAL		1,291,275	1,107			1,290,168	1,005,410	1,107	1,004,303	1,206,271			85,004		85,004
GRAND TOTAL		1,291,275	1,107			1,290,168	1,005,410	1,107	1,004,303	1,206,271			85,004		85,004
SAY		1,350,000													

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EST. DDE = 7,500 CUBIC YARDS

EST. UNDERCUT = 10,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

EST. SELECT GRANULAR MATERIAL = 35,900 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

EST. SHALLOW UNDERCUT = 5,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

EST. CLASS IV SUBGRADE STABILZATION = 9,500 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

EST. PAVEMENT STRUCTURE VOLUME = 47,500 CY

EST. SHOULDER BORROW = 18,000 CY

^{*} EXCAVATION INCLUDES DETOUR REMOVAL

Earthwork Balance Sheet Alternative Pavement Design

Volumes in Cubic Yards

PROJECT: U-2579C COUNTY: Forsyth DATE: 10/23/2017 COMPILED BY: JMB SHEET 1 OF 1

STATION	STATION		EXCAVATIO	N			EMBAN	KMENT			WASTE				
		TOTAL	ROCK	UNDERCUT	UNSUIT.	SUITABLE	TOTAL	ROCK	EARTH	EMBANK.	BORROW	ROCK	SUITABLE	UNSUIT.	TOTAL
		UNCLASS.			UNCLASS.	UNCLASS.				+20%					
-Y3- 13+25.00	-Y3- 26+50.00	397				397	4,001		4,001	4,801	4,404				
-Y4- 10+10.00	-Y4- 12+42.12	59			·	59	272		272	326	267				
-L- 392+50.00	-L- 403+00.00	2,422				2,422	362,408		362,408	434,890	432,468				
-L- 403+00.00	-L- 410+06.22	138,041				138,041	233		233	280			137,761		137,761
-Y1RPB- 19+00.00	-Y1RPB- 32+00.00	61,361				61,361	97,709		97,709	117,251	55,890				
-Y1RPC- 18+35.00	-Y1RPC- 31+11.75	5,112				5,112	115,418		115,418	138,502	133,390				
-Y1LPB- 13+50.00	-Y1LPB- 18+00.00	20,095			_	20,095	38		38	46			20,049		20,049
*-Y1- 10+75.00	-Y1- 28+13.39	3,334				3,334	10,332		10,332	12,398	9,064				
*-Y1- 30+34.05	-Y1- 48+50.00	26,661				26,661	27,486		27,486	32,983	6,322				
-DR2- 10+16.50	-DR2- 12+10.00	25				25	858		858	1,030	1,005				
-Y1DET- 15+93.03	-Y1DET- 33+46.92	6,019				6,019	10,293		10,293	12,352	6,333	<u> </u>			
	SUBTOTAL	263,526				263,526	629,048		629,048	754,859	649,143		157,810		157,810
-L- 410+06.22	-L- 440+00.00	290,804				290,804	174,884		174,884	209,861			80,943		80,943
-L- 440+00.00	-L- 447+50.00	45,157				45,157	35,111		35,111	42,133			3,024		3,024
-Y1RPD- 18+60.00	-Y1RPD- 31+50.00	24,095				24,095	113,346		113,346	136,015	111,920				
*-Y2- 10+00.00	-Y2- 20+18.52	2,491				2,491	772		772	926			1,565	-	1,565
*-Y2- 22+40.27	-Y2- 26+50.00	575				575	960		960	1,152	577				
-SRSA- 10+00.00	-SRSA- 12+00.00	493				493	11		11	13			480		480
-SRSA- 29+50.00	-SRSA- 31+00.00	438				438	17		17	20			418		418
-Y2DET- 15+00.00	-Y2DET- 20+00.00	577				577	736		736	883	306				
-Y2DET- 23+00.00	-Y2DET- 28+03.31	1,104				1,104	10		10	12			1,092		1,092
	SUBTOTAL	365,734				365,734	325,847		325,847	391,015	112,803		87,522		87,522
-L- 447+50.00	-L- 472+42.45	691,856	1,107			690,749	14,511	1,107	13,404	17,192			674,664		674,664
	SUBTOTAL	691,856	1,107			690,749	14,511	1,107	13,404	17,192			674,664		674,664
-L- 474+97.45	-L- 478+00.00	159				159	36,004		36,004	43,205	43,046				
											·	L			
	SUBTOTAL	159				159	36,004		36,004	43,205	43,046				
									X.						
TOTAL		1,321,275	1,107			1,320,168	1,005,410	1,107	1,004,303	1,206,271	804,992		919,996		919,996
ADJUST FOR ALTERNATI		-13,000				-13,000	8,500		8,500	10,200	23,200				
LOSS DUE TO CLEARING		-30,000				-30,000					026 102		-30,000		-30,000
VASTE IN LIEU OF BORROW			· · · · · · · · · · · · · · · · · · ·			<u> </u>			<u> </u>		-828,192		-828,192		-828,192
PROJECT TOTAL		1,278,275	1,107			1,277,168	1,013,910	1,107	1,012,803	1,216,471			61,804		61,804
									-						
											· · · · · · · · · · · · · · · · · · ·				
GRAND TOTAL		1,278,275	1,107			1,277,168	1,013,910	1,107	1,012,803	1,216,471			61,804		61,804
SAY		1,350,000]				1			

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EST. DDE = 7,500 CUBIC YARDS

EST. UNDERCUT = 10,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 22, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

EST. SELECT GRANULAR MATERIAL = 35,900 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 2, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

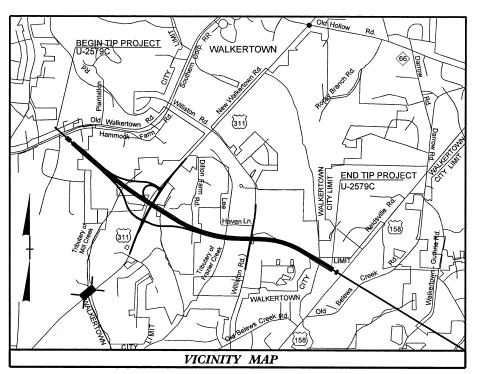
EST. SHALLOW UNDERCUT = 5,000 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 2, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

EST. CLASS IV SUBGRADE STABILZATION = 9,500 CY CONTINGENCY PER GEOTECH RECOMMENDATIONS DATED SEPTEMBER 2, 2015 TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

EST. PAVEMENT STRUCTURE VOLUME = 35,000 CY

EST. SHOULDER BORROW = 14,500 CY

^{*} EXCAVATION INCLUDES DETOUR REMOVAL



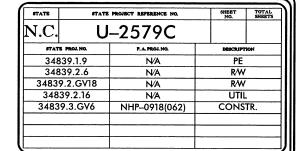
STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

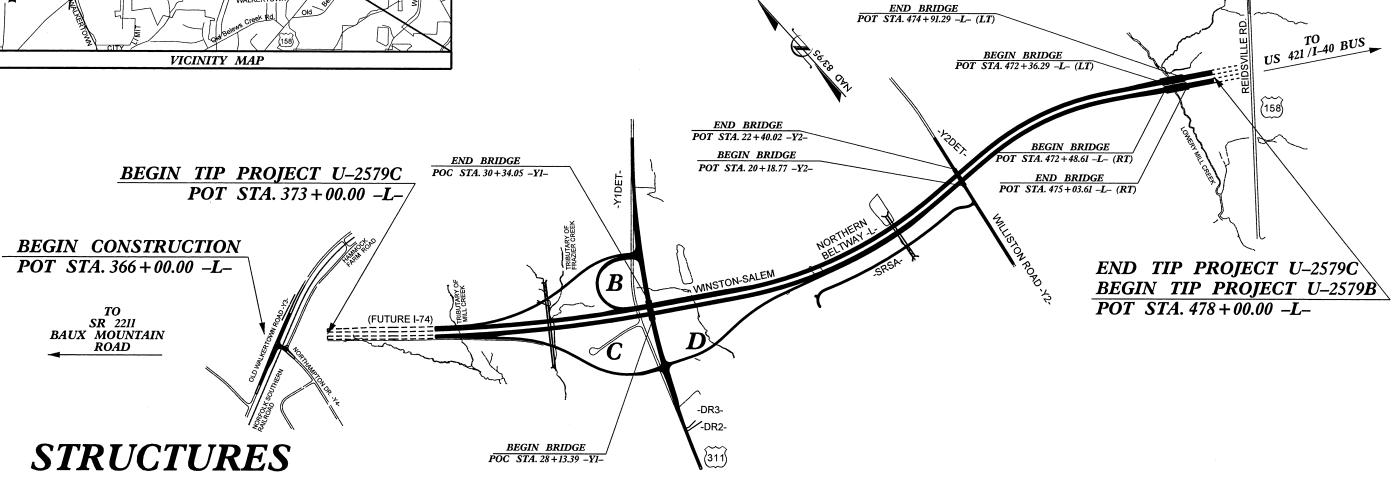
FORSYTH COUNTY

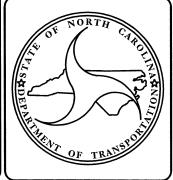
LOCATION: WINSTON - SALEM NORTHERN BELTWAY (EASTERN SECTION) FROM US 311 TO US 158 (FUTURE I-74)

TYPE OF WORK: WIDENING, GRADING, PAVING, DRAINAGE, SIGNING, SIGNALS, ITS, CULVERTS AND STRUCTURES.









DESIGN DATA

ADT 2017 = 65,592 ADT 2037 = 93,112

DHV = 10 %

D = 60 %

1 = 18 % * V = 70 MPH

* TTST 12 % DUAL 6 %

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT U-2579C = 1.941 Miles

LENGTH OF STRUCTURE PROJECT U-2579C = 0.048 Mile

TOTAL LENGTH OF TIP PROJECT U-2579C = 1.989 Miles

Prepared in the Office of: DIVISION OF HIGHWAYS

STRUCTURES MANAGEMENT UNIT 1000 BIRCH RIDGE DR. RALEIGH, N.C. 27610

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2012 STANDARD SPECIFICATIONS

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